UNITED STATES ENVIRONMENTAL PROTECTION AC
REGION 5

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Subject: Additional work at the Himco Landfill site in Elkhart, IN

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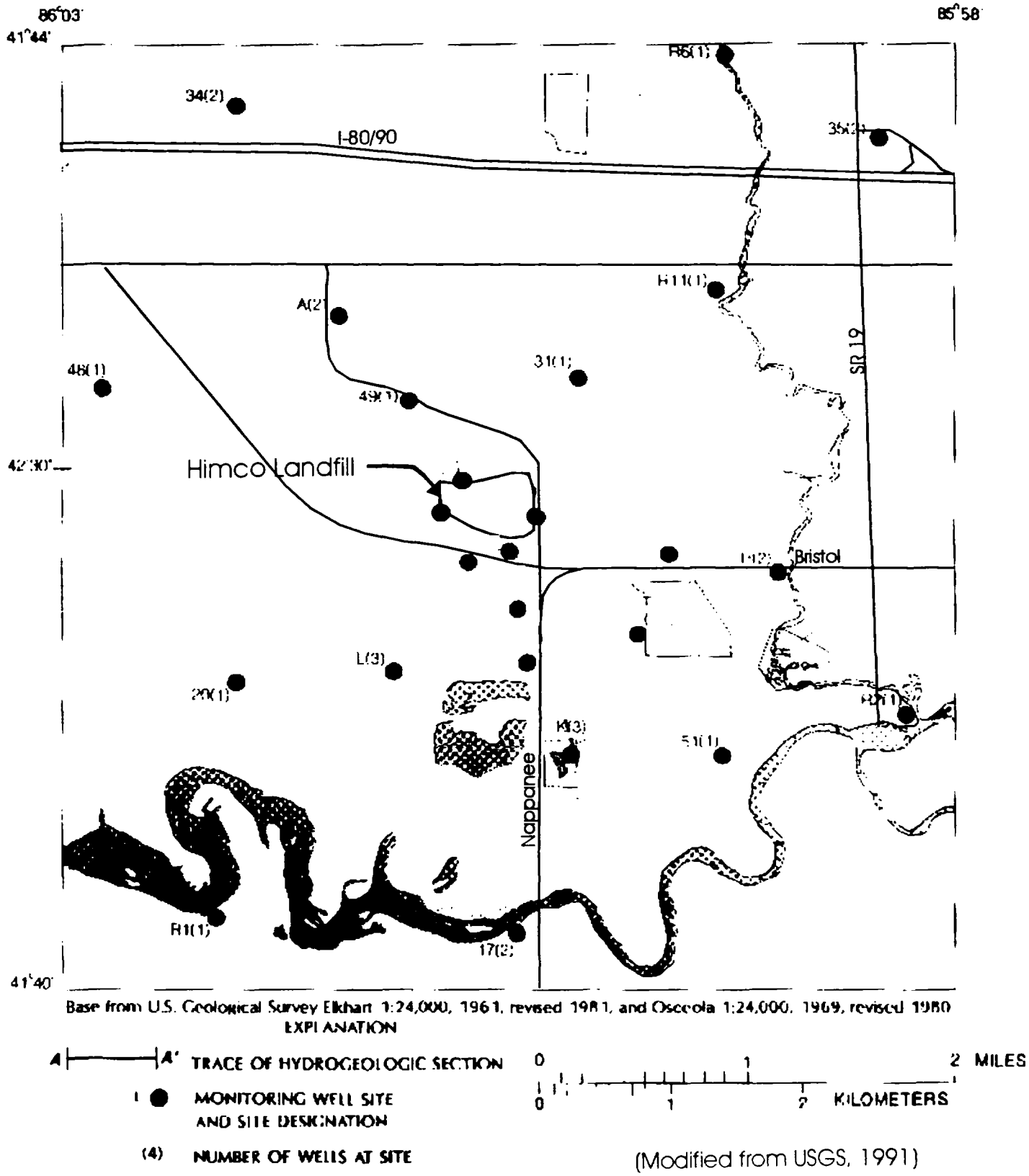
After numerous discussions on the objectives of the upcoming work at the Himco Landfill, the following recommendations were made concerning additional activities to supplement or assist the U.S. Army Corps of Engineers (USACE) on site characterization activities. The driving goals of these additional activities are the following:

1) Determination of the potential risks to previously unsampled residential wells to the east of the landfill.
2) Determination of geochemical trends to assist in the interpretation of the existing database of ground-water samples.
3) Determination of potential risk(s) to deeper portions of the aquifer system in the vicinity of the Himco Landfill.

To assist in meeting these goals, the following activities were recommended to be completed:

a) Sample the residential wells to the east of the landfill as soon as possible, with the possible result that these wells would be sampled twice over a period of one or two months. This would increase the reliability of any analytical results and insure a more rapid response if contamination is found in any residential wells.
b) To include additional parameters in the ground-water sampling analysis. For example, bromide is to be included, since the U.S. Geological Survey (USGS) had 10, or more, years of data for some wells which can be used to determine temporal trends on past releases from the landfill.
c) The inclusion of possible parameters, such as sulfate, to assist in the determination whether contaminants detected in some wells may be from ground water, or from migration through soil gas into ground water. The sulfate source may be the calcium sulfate that was dumped in the landfill from the former Miles Laboratory (now Bayer).
d) Sample some existing USGS monitoring wells, since many of these wells are off the Himco Landfill property, these wells are in deeper portions of the glacial aquifer and to assess the temporal trends as described in activity b) above and as shown on Figure 1. Past work by the USGS has indicated that strong potential for vertical migration of



(Modified from USGS, 1991)

Figure 5.–Location of monitoring wells in the area of primary interest and trace of hydrogeologic section A-A'.

FIGURE 1
MAP OF WORK TO BE COMPLETED AT THE HIMCO LANDFILL